

AMENDMENTS TO THE CLAIMS

The claims have been reproduced in their entirety with appropriate indications of their respective statuses.

1. (Currently Amended) A dielectric coating for use on a conductive substrate comprising:
 - a silicone composition of the formula:
$$[R_xSiO_{(4-x)/2}]_n$$
wherein x=1-4 and wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy groups or a combination of the above or monovalent radicals independently selected from alkyl, aryl, ~~arylamide~~ alkylamide, arylamide, alkylamino groups and arylamino radicals (~~when 1<x<4~~);
said dielectric coating having a network structure.
2. (Currently Amended) The dielectric coating of claim 1 wherein the silicone composition comprises a silsesquioxane compound of the formula:
$$[RSiO_{3/2}]_n$$
wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy or a combination of the above or monovalent radicals independently selected from alkyl, aryl, ~~arylamide~~ alkylamide, arylamide, alkylamino groups and arylamino radicals (~~when 1<x<4~~) (~~when 1<x<4~~).
3. (Currently Amended) The dielectric coating of claim 2 wherein the silsesquioxane compound further includes silanol units of the formula: $[RSi(OH)_xO_y]$ where x+y=3 and which can be silylated with appropriate organosiloxanes organosiloxanes to produce corresponding silylated polysilsesquioxanes.
4. (Original) The dielectric coating of claim 1 wherein the silicone composition comprises a polymethyl silsesquioxane of the formula: $[CH_3SiO_{(3/2)}]_n$.

5. (Currently Amended) The dielectric coating of claim 1 wherein the silicone composition comprises a silsesquioxane copolymer of the formula: $R^1_aR^2_bR^3_cSiO_{(4-a-b-c)/2}$, wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that $0.8 \leq (a+b+c) \leq 3.0$ and wherein the copolymer has an average of at least 2 two R^1 groups per molecule, and each R^1 is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups having aliphatic unsaturation, and each R^2 and each R^3 are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and R^1 .

6. (Original) The dielectric coating of claim 5 wherein R^1 is an alkenyl group and R^2 and R^3 are nonfunctional groups selected from the group consisting of alkyl and aryl groups.

7. (Original) The dielectric coating of claim 6 wherein R^1 is selected from the group consisting of vinyl and allyl groups.

8. (Original) The dielectric coating of claim 6 wherein R^2 and R^3 are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.

9. (Currently Amended) The dielectric coating of claim 1 wherein the silicone composition comprises a phenyl-methyl siloxane compound of the formula:

$\{ (MeSiO_{1/2})_{0.25} (PhSiO_{1/2})_{0.15} (Ph_2SiO)_{0.50} \} [(MeSiO_{1/2})_{0.25} (PhSiO_{1/2})_{0.15} (Ph_2SiO)_{0.10} (MePhSiO)_{0.50}]$.

10. (Currently Amended) A substrate **structure** comprising:

a flexible conductive material;

a dielectric coating disposed on a surface of the flexible conductive material;

said dielectric coating comprising a silicone silicone composition of the formula:

$[R_xSiO_{(4-x)/2}]_n$

wherein x=1-4 and wherein R comprises a compound selected from the group consisting of methyl, phenyl, hydrido, hydroxyl, alkoxy groups or a combination of the above or

monovalent radicals independently selected from alkyl, aryl, alkylamide, arylamide, alkylamino groups and arylamino radicals (when 1<x<4);

said dielectric coating having a network structure.

11. (Currently Amended) The substrate of claim 10 wherein the silicone composition comprises a silsesquioxane compound of the formula:



wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy or a combination of the above or monovalent radicals independently selected from alkyl, aryl, alkylamide, alkylamide arylamide, alkylamino groups and arylamino radicals (when 1<x<4) (when 1<x<4).

12. (Currently Amended) The substrate of claim 11 wherein the silsesquioxane compound further includes silanol units of the formula:



where x+y=3 and which can be silylated silylated with appropriate organosiloxanes organosiloxanes to produce corresponding silylated polysilsesquioxanes.

13. (Original) The substrate of claim 10 wherein the silicone composition comprises a polymethyl silsesquioxane of the formula: $[\text{CH}_3\text{SiO}_{3/2}]_n$.

14. (Original) The substrate of claim 10 wherein the silicone composition comprises a silsesquioxane copolymer of the formula:



wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that $0.8 \leq (a+b+c) \leq 3.0$ and wherein the copolymer has an average of at least 2 R^1 groups per molecule, and each R^1 is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups having aliphatic unsaturation, and each R^2 and each R^3 are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and R^1 .

15. (Original) The substrate of claim 14 wherein R¹ is an alkenyl group and R² and R³ are nonfunctional groups selected from the group consisting of alkyl and aryl groups.
16. (Original) The substrate of claim 15 wherein R¹ is selected from the group consisting of vinyl and allyl groups.
17. (Original) The substrate of claim 15 wherein R² and R³ are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.
18. (Currently Amended) The substrate of claim 1 wherein the silicone composition comprises a phenyl-methyl siloxane compound of the formula:
$$\left[\left(\text{MeSiO}_{3/2} \right)_{0.25} \left(\text{PhSiO}_{3/2} \right)_{0.15} \left(\text{Ph}_2\text{SiO} \right)_{0.50} \right] \left[\left(\text{MeSiO}_{3/2} \right)_{0.25} \left(\text{PhSiO}_{3/2} \right)_{0.15} \right. \\ \left. \left(\text{Ph}_2\text{SiO} \right)_{0.50} \right]_{0.10} \left(\text{MePhSiO} \right)_{0.50}.$$
19. (New) The dielectric coating of claim 1, wherein the silicone composition further comprises a reinforcing filler.
20. (New) The dielectric coating of claim 19, wherein the reinforcing filler comprises colloidal silica particles having a size of from 5 to 150 nm.
21. (New) The substrate of claim 10, wherein the silicone composition further comprises a reinforcing filler.
22. (New) The substrate of claim 21, wherein the reinforcing filler comprises colloidal silica particles having a size of from 5 to 150 nm.